

JUN 19 2006

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Use this form for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 1

PTO/SB/08a (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**Complete if Known**

Application Number	08/962,197
Filing Date	10/27/1997
First Named Inventor	NARIL GHALY
Art Unit	3713
Examiner Name	JULIE K. BROCKETT
Attorney Docket Number	

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	P1	US- 3,367,653	02-06-1968	Brown	Abstract
	P2	US- 3,417,995	12-24-1968	Creely	Abstract
	P3	US- 3,779,553	12-18-1973	Secter	Abstract
	P4	US- 3,982,764	09-28-1976	Dieball	Abstract
	P5	US- 5,573,245	11-12-1996	Weiner, et al	claim 1
	P6	US- 5,603,500	02-18-1997	olti, et al.	claim 1
	P7	US- 6,976,916	12-20-2005	Burrell, et al.	Title & Background
	P8	US- 6,507,568	07-19-2005	Schlieffers, et al.	Title, claim & Fig. 1
	P9	US- 6,861,962	03-01-2005	Spencer	Abstract & claim 1
	P10	US- 6,948,869	09-27-2005	Macor	Title, Abstract & claim 1
	P11	US- 6,989,732	01-24-2006	Fisher	Abstract & claim 1
	P12	US- 6,920,339	07-19-2005	choy, et al.	Title, Abstract & claim 1
	P13	US- 6,922,280	06-28-2005	Henry	Title, Abstract & claims 1-4
	P14	US- 6,950,680	09-27-2005	Kela, et al.	Abstract, claim 1, Figs. 1 & 2
	P15	US- 6,968,206	11-22-2005	Whitney-Anderson	claim 1, Figures 1 & 6
	P16	US- 6,930,260	08-16-2005	Cleary, et al.	Abstract, claim 1, FIG. 1
		US-			
		US-			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T*
		Country Code* Number* Kind Code* (if known)				

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

2

## Complete if Known

Application Number 08/1962,971  
 Filing Date 6/27/1997  
 First Named Inventor NABIL N. GHALY  
 Art Unit 3713  
 Examiner Name Julie K. Broketti  
 Attorney Docket Number

## NON PATENT LITERATURE DOCUMENTS

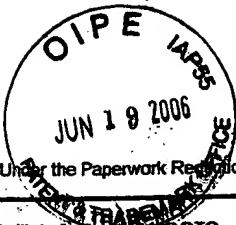
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	I1	Internet Document- <a href="http://new.arcusa.com/8427/index.html">http://new.arcusa.com/8427/index.html</a> - ARC-USA, Inc. - Krypads	
	I2	Internet Document- <a href="http://www.nyx.net/~LTURNER/PUBLIC-HTML/TMS1000INS.HTML">www.nyx.net/~LTURNER/PUBLIC-HTML/TMS1000INS.HTML</a> - Instruction set for Texas Instruments TMS1000	
	I3	Internet Document - <a href="http://www.cacs.louisiana.edu/~mgr/404/burks/pcinfo/hardware/cpu.htm">http://www.cacs.louisiana.edu/~mgr/404/burks/pcinfo/hardware/cpu.htm</a> - Description of the Texas Instrument TMS1000 micro-controller, indicating the use of "hardwired" instructions	
	I4	Text Book: Digital Systems Logic and Circuits Author: B. ZACHAROV Publisher: American Elsevier Pub. Co., Inc. 1968 Pages 53 & 83 - show the symbol $\odot$ describing the Coincidence Boolean operator $\bar{A}\bar{B} + AB$	
	I5	Text Book: Digital Design, 2nd Edition Author: M. MORRIS MANO Publisher: Prentice Hall, 1991 - New Jersey Pages 56 & 57 - show the symbol $\odot$ describing the	

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete If Known</b>			
		Application Number	08/962,971		
		Filing Date	10/27/1997		
		First Named Inventor	NABIL N. GHALY		
		Art Unit	3713		
		Examiner Name	Julie K. Brockett		
Sheet	2	of	2	Attorney Docket Number	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		equivalence Boolean operator $xy + x'y'$	
	I6	Text Book: Digital Computer Design Fundamentals Author: JOAHAN CHU Publisher: McGraw-Hill, 1962 Pages 112+113 - show the symbol $\odot$ describing the Coincidence Boolean operator $\bar{A}\bar{B} + AB$	
	I7	Dictionary Definition for the term "Keypad" Webster's New World College Dictionary, Fourth Edition - Page 785 MICHAEL AGNES, Editor in chief	
	I8	Internet Document: <a href="https://patentlaw.typepad.com/patent/2004/10/can_dependant_c.html">https://patentlaw.typepad.com/patent/2004/10/can_dependant_c.html</a> Article dated October 13, 2004, analyzing Ghaly v. Harbro - By DENNIS CROUCH	
	I9	Dictionary Definition of the term "Push Button" Random House Webster's College Dictionary Page 1097	

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.  
1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.  
This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.